

# **Safety Data Sheet**

# 1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the product Product number: U6006 Name of material: Urea CAS No.: 57-13-6

### 1.2 Recommended use and restriction on use

General use : For experimental, research and industrial use.

Restriction on use : Never drink, Not used except for experimental, research and industrial applications.

# 1.3 Manufacturer / Supplier / Distributor information

# Importer/distributors identification

Company : ASIA CHEMIE (THAILAND) CO., LTD.

Address : 44/27 Moo.4 T.Huaykapi A.Muangchonburi, Chonburi, Thailand. 20130

Telephone number : +66 3838 7988 Fax number : +66 3838 7989

E-mail : asiachemie@gmail.com, natchakot@asiachemie.com, natchakot@gmail.com

# 2. Hazards identification

# 2.1 GHS Classification

- Not applicable

# 2.2 GHS label elements

# **Hazard symbols**

- Not applicable

# Signal word: Warning

- Not applicable

# **Hazard Statements** - Not applicable

# **Precautionary Statements**

- Not applicable

# 2.3 Other hazards which do not result in classification : (NFPA Classification)

# NFPA grade (O ~ 4 level)

- Health: 1, Flammability: 0, Reactivity: 0

# 3. Composition/information on ingredients

Chemical Name	Synonyms	CAS Number	Concentration %
Urea	Carbamide	57-13-6	100

# 4. First aid measures

# 4.1 Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- Get medical attention immediately.
- Remove contact lenses if worn.

# 4.2 Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Get medical attention immediately.
- Wash thoroughly after handling.

# 4.3 Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.
- Get medical attention immediately.

# 4.4 Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.
- Get medical attention immediately.

# 4.5 Delayed and immediate effects and also chronic effects from short and long term exposure

- Not available

SDS: U6006 Urea Page 1 of 5

Contact: info@grec.asia, info@asiachemie.com

# 4.6 Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.
- If exposed or concerned, get medical attention/advice.

# 5. Fire-fighting measures

# 5.1 Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray.
- Avoid use of water jet for extinguishing.

# 5.2 Specific hazards arising from the chemical

- Not available

# 5.3 Special protective actions for firefighters

- Do not attempt to take action without suitable protective equipment.

# 6. Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

- Evacuate unnecessary personnel.
- Use personal protective equipment as required.
- Stop release.

# **6.2 Environmental precautions**

- Prevent runoff and contact with waterways, drains or sewers
- If large amounts have been spilled, inform the relevant authorities.

# 6.3 Methods and materials for containment and cleaning up

- Collect spillage.
- On land, sweep or shovel into suitable containers.
- Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

# 7. Handling and storage

# 7.1 Precautions for safe handling

- Do not get in eyes, on skin, or on clothing.
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving

# 7.2 Conditions for safe storage, including any incompatibilities

- Store in original container.
- Keep container tightly closed.
- Store in a dry place.
- Protect from moisture.

# 8. Exposure controls/personal protection

# 8.1 Exposure limits

# ACGIH TLV

- Not available

# **OSHA PEL**

- Not available

# 8.2 Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

# 8.3 Individual protection measures, such as personal protective equipment

# Respiratory protection

- Wear respiratory protection.

# Eye protection

- Provide an emergency eye wash station and quick drench shower in the immediate work area.
- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.

### Hand protection

- Wear appropriate glove.

### Skin protection

- Wear appropriate clothing.

### **Others**

- Not available

SDS: U6006 Urea Page 2 of 5

Contact: info@qrec.asia, info@asiachemie.com



# 9. Physical and chemical properties

A. Appearance		
- Appearance	Solid (Other)	
- Color	white	
B. Odor	ammonia odor	
C. Odor threshold	Not available	
D. pH	7.5 - 7.9 at 480 g/l at 25 °C	
E. Melting point/Freezing point	132 - 135 °C	
F. Initial Boiling Point/Boiling Ranges	Not available	
G. Flash point	Not available	
H. Evaporation rate	Not available	
I. Flammability (solid, gas)	Not available	
J. Upper/Lower Flammability or explosive limits	Not available	
K. Vapour pressure	1.25 mmHg (at 25 °C)	
L. Solubility	Not available	
M. Vapour density	Not available	
N. Specific gravity (Relative density)	1.335 g/cm3	
O. Partition coefficient of n-octanol/water	Not available	
P. Autoignition temperature	Not available	
Q. Decomposition temperature	Not available	
R. Viscosity	Not available	
S. Molecular weight	60.06	

# 10. Stability and reactivity

# 10.1 Chemical Stability

- This material is stable under recommended storage and handling conditions.

# 10.2 Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

# 10.3 Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces.

# 10.4 Incompatible materials

- Not available

# 10.5 Hazardous decomposition products

- May emit flammable vapour if involved in fire.

# 11. Toxicological information

# 11.1 Information on the likely routes of exposure

# Respiratory tracts

- Not available

### Oral

- Not available

# Eye · Skin

- Not available

# 11.2 Delayed and immediate effects and also chronic effects from short and long term exposure Acute toxicity

\* Oral

- LD50 = 8.471 mg/kg Rat

Contact: info@qrec.asia, info@asiachemie.com

- \* Dermal
- Not available
- \* Inhalation
  - Not available

# Skin corrosion/irritation

- Not available

# Serious eye damage/irritation

- Not available

# Respiratory sensitization

- Not available

# Skin sensitization

- Not available

# Carcinogenicity

- Not available

# Germ cell mutagenicity

- Not available

# Reproductive toxicity

- Not available

# **STOT-single exposure**

- Not available.

# STOT-repeated exposure

- Not available

# **Aspiration hazard**

- Not available

# 12. Ecological information

# 12.1 Ecotoxicity

Not available

# 12.2 Persistence and degradability

Not available

# 12.3 Bioaccumulative potential

Not available

# 12.4 Mobility in soil

Not available

# 12.5 Other adverse effects

Not available

# 13. Disposal considerations

### 13.1 Disposal methods

- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them.
- Oil water separation technology shall be applied as pre-waste treatment if it is applicable
- It shall be treated by incineration

# 13.2 Special precautions for disposal

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act
- Dispose of waste in accordance with all applicable laws and regulations.

# 14. Transport information

# 14.1 UN No. (IMDG CODE/IATA DGR)

- Not applicable

# 14.2 Proper shipping name

- Not applicable

# 14.3 Hazard Class

- Not applicable

# 14.4 IMDG CODE/IATA DGR Packing group

- Not applicable

# 14.5 Marine pollutant

- Not applicable

SDS: U6006 Urea Contact: info@grec.asia, info@asiachemie.com



# SDS Safety Data Sheet

# 14.6 Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE: Not available
- EmS SPILLAGE SCHEDULE : Not available
- Air transport (IATA): Not subject to IATA regulations.

# 15. Regulatory information

# 15.1 National and/or international regulatory information

# **POPs Management Law**

- Not applicable

# **Information of EU Classification**

- \* Classification
  - Not applicable

# U.S. Federal regulations

- \* OSHA PROCESS SAFETY (29CFR1910.119)
  - Not applicable
- \* CERCLA Section 103 (40CFR302.4)
- Not applicable
- \* EPCRA Section 302 (40CFR355.30)
  - Not applicable
- \* EPCRA Section 304 (40CFR355.40)
  - Not applicable
- \* EPCRA Section 313 (40CFR372.65)
  - Not applicable

# **Rotterdam Convention listed ingredients**

- Not applicable

# **Stockholm Convention listed ingredients**

- Not applicable

# **Montreal Protocol listed ingredients**

- Not applicable

# 16. Other information

**Reason for the revision:** General update.

Date: 13/7/2014 **Revision #4**Date: 25/09/2022



No warranty, expressed or implied for a particular purpose or otherwise is made, except the products herein discussed comply to the chemical description on the labels. Buyer assumers risks of the use, storage and handling. Producer or distributors shall not be liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, use, storage or handling of this product. The information contained herein is, to the best of our knowledge, true and accurate. However, all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. We disclaim any liability incurred in connection with the use of these data or suggestions.

SDS: U6006 Urea Page 5 of 5

Contact: info@qrec.asia, info@asiachemie.com